

**A VOICE PACKET PROCESSOR AND  
METHOD OF OPERATION THEREOF**

**ABSTRACT OF THE DISCLOSURE**

A voice packet processor for use with voice applications employing a fast pattern processor (FPP) and a routing switch processor (RSP) that receive and transmit protocol data units (PDUs) and a method of operation thereof. In one embodiment, the voice packet processor includes (1) a voice packet controller (VPC) configured to receive the PDUs from the FPP and queue the PDUs for processing, (2) a voice packet parser configured to receive the PDUs that are ATM adaptation layer 2 (AAL2) cells containing voice data from the VPC, parse the AAL2 cells into at least one Common Part Sublayer (CPS) packet and transmit the at least one CPS packet to the RSP, and (3) a voice packet assembler configured to receive the PDUs that are CPS packets from the VPC, assemble the CPS packets into at least one AAL2 Cell and transmit the at least one AAL2 cell to the RSP.